

Product datasheet for RC207739

YANK2 (STK32B) (NM_018401) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	YANK2 (STK32B) (NM_018401) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	YANK2
Synonyms:	HSA250839; STK32; STKG6; YANK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207739 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCGGGAACCACTCCACAAGCCCCCGTGTGGACGAGAATGAGGAAGTCAACTTTGACCATTTTC
AGATTCTCGGGCCATTGGTAAAGGGAGTTTTGGAAAGGTATGCATCGTCGAGAAGCGAGACACTAAGAA
AATGTATGCAATGAAGTACATGAACAAGCAGAAGTGCATCGAGAGGGATGAGGTTCCGAAATGTTTTCCGG
GAGCTGCAGATCATGCAAGGGCTGGAGCACCCCTTCTGGTCAATCTGTGGTACTCCTCCAGGATGAGG
AGGACATGTTTCAAGTGGTGGACCTGCTCCTGGGAGGCGACCTGCGCTACCATCTGCAGCAGAATGTGCA
TTTCACAGAGGGGACTGTGAAACTCTACATCTGTGAGCTGGCACTGGCCCTGGAGTATCTTCAGAGGTAC
CACATCATCCACAGAGACATCAAGCCAGACAATATCCTGCTGGATGAACACGGACATGTTTACATTACAG
ACTTCAACATAGCGACGGTAGTAAAGGAGCAGAAAGGGCTTCTCCATGGCTGGCACCAAGCCCTACAT
GGCTCCAGAAGTATTCCAGGTGTACATGGACGGAGGCCCGGATACTCGTACCCTGTGACTGGTGGTCC
CTGGGCATCACAGCCTATGAGCTGCTGCGGGGCTGGAGGCCGTACGAAATCCACTCGTCCAGCCATCG
ATGAAATCCTCAACATGTTCAAGGTGGAGCGTGTCCACTACTCCTCCACGTGGTCAAGGGGATGGTGGC
CCTGCTGAGGAAGCTCCTGACCAAGGATCCTGAGAGCCGCGTGTCCAGCCTTCATGACATACAGAGCGTG
CCCTACTTGGCCGACATGAACTGGGACCGGTGTTCAAGAAGGCACTGATGCCCGCTTTGTGCCCAATA
AAGGGAGTTGAACTGCGATCCCACATTTGAGCTTGAAGAGATGATTCTAGAATCCAAGCCACTTCACAA
AAAGAAGAAGCGATTGGCAAAGAACAGATCCAGGGATGGCACAAGGACAGCTGCCCGCTGAATGGACAC
CTGCAGCACTGTTTGGAGACTGTCCGGGAGGAATTCATCATATTCAACAGAGAGAAGCTCAGGAGGCAGC
AGGGACAGGGCAGCCAGCTCTTGGACACCGACAGCCGAGGGGGAGGCCAGGCCCAAGCAAGCTCCAGGA
CGGGTGAACAACAACCTCCTCACCCACACCTGCACCCGTGGCTGCAGCAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC207739 protein sequence
Red=Cloning site Green=Tags(s)

MGGNHSHKPPVFDENEVNFDFHFQILRAIGKGSFGKVCIVQKRDTKKMYAMKYMNKQKCIERDEVNRVFR
 ELQIMQGLEHPFLVNLWYSFQDEEDMFVVDDLGGDLRYHLQQNVHFTEGTVKLYICELALALEYLQRY
 HIIHRDIKPDNILLDEHGHVHITDFNIATVVKGAERASSMAGTKPYMAPEVFQVYMDGGPGYSYPVDWWS
 LGITAYELLRGWRPYEIHVSPTIDEILNMFKVERVHYSSWCKGMVALLRKLTKDPESRVSSLHDIQSV
 PYLADMNWDVAVFKALMPGFVFNKGRNLNCDPTFEEMILESKPLHKKKRLAKNRSRDGTDKSCPLNGH
 LQHCLETVREEFIIFNREKLRRQQGQGSQLLDTSRGGGQAQSKLQDGCNNLLTHTCTRCSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6136_d11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_018401

ORF Size: 1242 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_018401.3](#)

RefSeq Size: 3224 bp

RefSeq ORF: 1245 bp

Locus ID: 55351

UniProt ID: [Q9NY57](#)

Cytogenetics: 4p16.2

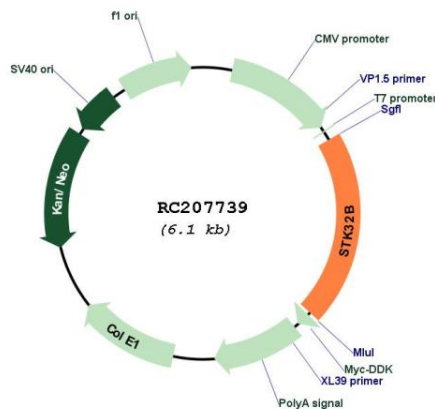
Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

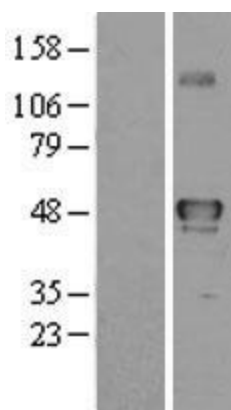
MW: 47.8 kDa

Gene Summary: This gene encodes a serine-threonine protein kinase. Serine-threonine kinases transfer phosphate molecules to the oxygen atoms of serine and threonine. A genomic deletion affecting this gene has been associated with Ellis-van Creveld syndrome, an autosomal recessive skeletal dysplasia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2016]

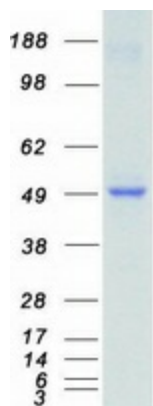
Product images:



Circular map for RC207739



Western blot validation of overexpression lysate (Cat# [LY402677]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207739 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified STK32B protein (Cat# [TP307739]). The protein was produced from HEK293T cells transfected with STK32B cDNA clone (Cat# RC207739) using MegaTran 2.0 (Cat# [TT210002]).